



LEED
for HOMES

Durability Checklist

Inspection Dates:

Site-Specific Environmental Conditions:

1. Brief Description of Site

Local Terrain:
Type of Soil:
Depth of Soil:
Depth of Ground Water :
Level of Pest Threat:
EPA Radon Zone

2. Occupancy

Number of Bedrooms:

3. Meteorological

ENERGY STAR Climate Zone
LEED Precipitation Zone
Annual Rainfall (Inches per year)
Average Annual Wind Speed (mph)
Average Annual Solar Insolation (W/SF)

4. Potential Natural Disasters:

Integrated Design Process

Core Skills of Design Team: Greater than 5 years experience in each of the following skill areas:

Approaches

APPRO	VBG	LEED-H	ACWMA	NAHB	NAHB	VBG/	Remode	GHNE	New	Remode	MF New	MF
ACH	Points	Points	Points	Points	Notes	LEED-H	ling	Points	Constru	I	Constru	Remode

Risk/Problem: Uncontrolled Moisture Flow - Exterior

SiteSolutions:

Strategy #1: Assessment of existing surface water drainage paths

Survey site to assess moisture and drainage conditions

Strategy #2: Ensure that rainwater flows away from building

Grade site to drain water away from building

Provide gutters and drainspouts

[illegible][illegible]

Risk/Problem: Uncontrolled Air Flow

Solutions: (included in EA 3)																	
<i>Intended service life of air barrier measures:</i>																	
<i>Strategy #1: Minimize Air Leakage from/into Foundation</i>																	
Tightly seal all penetrations from conditioned space into foundation																	
<i>Strategy #2: Minimize Air Leakage Through Exterior Envelope</i>																	
Tightly seal all penetrations from conditioned space into exterior envelope																	
<i>Strategy #3: Test Air Tightness of House</i>																	
Perform air leakage (blower pressurization) test to verify leakage rate of envelope																	
<i>Other, Specify:</i>																	

Risk/Problem: Uncontrolled Heat Flow

Solutions: (included in EA 2 and 4)																	
<i>Intended service life of thermal barrier measures:</i>																	
<i>Strategy #1: Install Above Code Insulation Levels</i>																	
Exceed IECC Requirements for Climate Zone																	
<i>Strategy #2: Ensure Proper Installation of Insulation</i>																	
Install insulation with no gaps or voids OR use blown-in insulation																	
Perform new ENERGY STAR Thermal Bypass (pre-drywall) inspection (NHEC?)																	
<i>Strategy #3: Install High Performance Windows</i>																	
Exceed ENERGY STAR for Windows requirements (i.e., with U-Values < 0.4) (Need NFRC label)																	
<i>Strategy #4: Ensure Attic is Well Ventilated</i>																	
Avoid build-up of heat and moisture in attic (have roof monitor)																	
<i>Strategy #5: Test Thermal Integrity of Envelope of House</i>																	
Perform thermal image scanning to test thermal performance of envelope (Foam Tech? M. Dillon?)																	
<i>Other, Specify:</i>																	

Risk/Problem: Radiation / UV from Sunlight

Solutions: (Included in EA 1, 4, and MR 5)																	
<i>Intended service life of solar protection measures:</i>																	
<i>Strategy #1: UV protective glazings</i>																	
Specify glazings that block the most destructive UV radiation (i.e., w/ values of SHGC < 0.40)																	
<i>Strategy #2: Shading of windows</i>																	
Specify overhangs above south windows																	
Provide vegetative shading																	
<i>Strategy #3: Provide cool roof</i>																	
Specify reflective roofing																	
Consider a vegetated roof																	
<i>Strategy #4: Select UV resistant materials</i>																	
Plastics used outdoors should include UV inhibitors. (N/A)																	

(Version 1.73)

Builder Name: Bruss Construction

Address (Street, Cirty, State): Green Woodlands - Dorchester, NH

7/6/2007 by Patrick
Miller

<input checked="" type="checkbox"/>	Flat	<input type="checkbox"/>	Sloped (> 25 degrees)		
<input type="checkbox"/>	Clay	<input type="checkbox"/>	Soil	<input type="checkbox"/>	Sandy
<input type="checkbox"/>	Few feet	<input checked="" type="checkbox"/>	>10 feet		
<input type="checkbox"/>	Close to surface	<input type="checkbox"/>	> 50 ft below surface	X	> 10' below surface
<input type="checkbox"/>	Low	<input checked="" type="checkbox"/>	Medium	<input type="checkbox"/>	High
<input type="checkbox"/>	Zone 1	<input checked="" type="checkbox"/>	Zone 2 or 3		http://www.epa.gov/iaq/radon/zonemap.html

3

Number of Bathrooms:

3

N (N, NC, SC, S) http://www.energystar.gov/index.cfm?c=windows_doors.pr_crit_windows#map

normal (Normal, Dry, Wet)

40 (Inches per year)

<http://gis.ncdc.noaa.gov/website/ims-climatls/index.html>

(mph)

same as above

(KWh/M²/SF)

http://rredc.nrel.gov/solar/old_data/nsrdb/redbook/atlas/colorpdfs/13.PDF

<input type="checkbox"/>	Hurricane	<input checked="" type="checkbox"/>	Wild Fire	<input checked="" type="checkbox"/>	Other, specify: Ice storms
<input type="checkbox"/>	Tornado	<input type="checkbox"/>	Flood		

<input checked="" type="checkbox"/>	Architecture	<input checked="" type="checkbox"/>	Land Planning
<input checked="" type="checkbox"/>	Energy Systems Design (Including HVAC)	<input checked="" type="checkbox"/>	Landscaping
<input checked="" type="checkbox"/>	Energy / Green Ratings	<input checked="" type="checkbox"/>	Sustainable Materials
<input checked="" type="checkbox"/>	Indoor Air Quality	<input checked="" type="checkbox"/>	Water Use / Management

Location in
Drawings (Detail
#)

Location in Specs.
(Page #)

Proposed

Verified

☒

☐

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						mtl's stored in tent	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
							<input type="checkbox"/>	<input type="checkbox"/>
							<input type="checkbox"/>	<input type="checkbox"/>
					Location in Drawings (Detail #)	Location in Specs. (Page #)	Proposed	Verified
		40	Years					
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					A4.02		<input checked="" type="checkbox"/>	<input type="checkbox"/>
							<input checked="" type="checkbox"/>	<input type="checkbox"/>
					A4.01		<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
							<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
					A4.01		<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
							<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
					A4.01		<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
							<input type="checkbox"/>	<input type="checkbox"/>
							<input type="checkbox"/>	<input type="checkbox"/>
		50	Years					
					A0.01		<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
					A0.01	need to see copy	<input checked="" type="checkbox"/>	<input type="checkbox"/>
					A0.01		<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
							<input checked="" type="checkbox"/>	<input type="checkbox"/>
					no		<input type="checkbox"/>	<input type="checkbox"/>
					A0.01		<input checked="" type="checkbox"/>	<input type="checkbox"/>
							<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
							<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
							<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
		100	Years					

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		200	Years									
					A4.01	7115	<input checked="" type="checkbox"/>	<input type="checkbox"/>				
							<input checked="" type="checkbox"/>	<input type="checkbox"/>				
						7220-4	<input checked="" type="checkbox"/>	<input type="checkbox"/>				
							<input type="checkbox"/>	<input type="checkbox"/>				
							<input type="checkbox"/>	<input type="checkbox"/>				
					Location in Drawings (Detail #)	Location in Specs. (Page #)	Proposed	Verified				
		200	Years									
					A4.01 & A4.02	7200	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>				
					A4.01 & A4.02	7200	<input checked="" type="checkbox"/> <input checked="" type="checkbox"/>	<input checked="" type="checkbox"/> <input type="checkbox"/>				
						8550	<input checked="" type="checkbox"/>	<input type="checkbox"/>				
					A2.01		<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>				
					???		<input type="checkbox"/>	<input type="checkbox"/>				
							<input type="checkbox"/>	<input type="checkbox"/>				
							<input type="checkbox"/>	<input type="checkbox"/>				
					Location in Drawings (Detail #)	Location in Specs. (Page #)	Proposed	Verified				
		100	Years									
					NFRC label??		<input checked="" type="checkbox"/>	<input type="checkbox"/>				
					A2.01		<input checked="" type="checkbox"/> <input type="checkbox"/>	<input type="checkbox"/> <input type="checkbox"/>				
					A2.01		<input checked="" type="checkbox"/> <input type="checkbox"/>	<input checked="" type="checkbox"/> <input type="checkbox"/>				
							<input type="checkbox"/>	<input type="checkbox"/>				

					???		<input type="checkbox"/>	<input type="checkbox"/>				
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							<input type="checkbox"/>	<input type="checkbox"/>				
					Location in Drawings (Detail #)	Location in Specs. (Page #)	Proposed	Verified				
		30	Years									
					H1.00 - H1.02		<input checked="" type="checkbox"/>	<input type="checkbox"/>				
					H1.00 - H1.02		<input checked="" type="checkbox"/>	<input type="checkbox"/>				
					done???		<input type="checkbox"/>	<input type="checkbox"/>				
							<input type="checkbox"/>	<input type="checkbox"/>				
							<input type="checkbox"/>	<input type="checkbox"/>				
					Location in Drawings (Detail #)	Location in Specs. (Page #)	Proposed	Verified				
		20	Years									
					E1.01 & E1.02 by owner ???		<input checked="" type="checkbox"/> <input type="checkbox"/>	<input type="checkbox"/> <input type="checkbox"/>				
						16050-12	<input checked="" type="checkbox"/>	<input type="checkbox"/>				
						16050-16	<input checked="" type="checkbox"/>	<input type="checkbox"/>				
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		50	Years									
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							<input checked="" type="checkbox"/>	<input type="checkbox"/>				
								<input type="checkbox"/>				
					A4.01		<input checked="" type="checkbox"/>	<input type="checkbox"/>				

